## APPARATUS AND METHOD FOR ACHIEVING A DESIREABLE FEED/CATALYST CONTACTING CONDITION IN FLUID CATALYTIC CRACKING UNITS

## 10 ABSTRACT OF THE DISCLOSURE

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A feed nozzle assembly located near the bottom of an FCC riser reactor includes a plurality of feed nozzles, each feed nozzle including a discharge end which is angled toward the center of the riser. The angled discharged ends provide a combined discharge of hydrocarbon feed and atomization gas into the central portion of the riser thereby providing a desirable feed/catalyst contact condition while preventing impingement of the feed upon the riser walls.